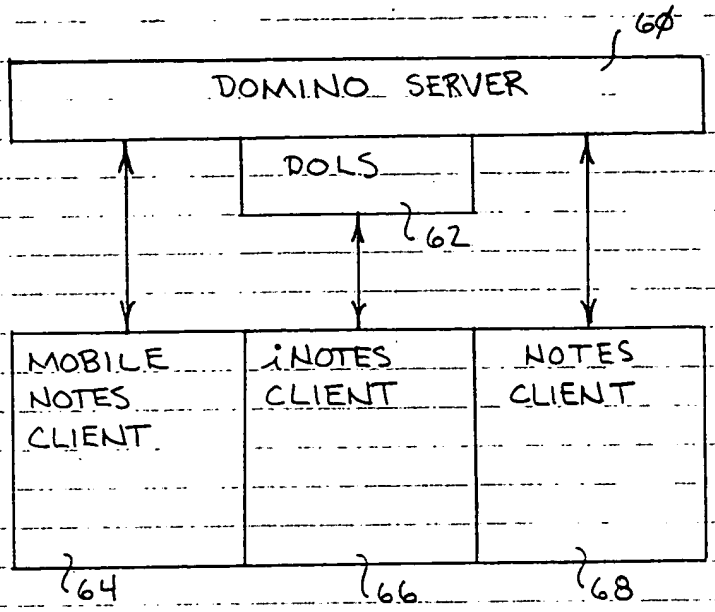

60
DOMINO SERVER
DOLS
62
MOBILE NOTES CLIENT
iNOTES CLIENT
NOTES CLIENT
64
66
68

FIG. 1

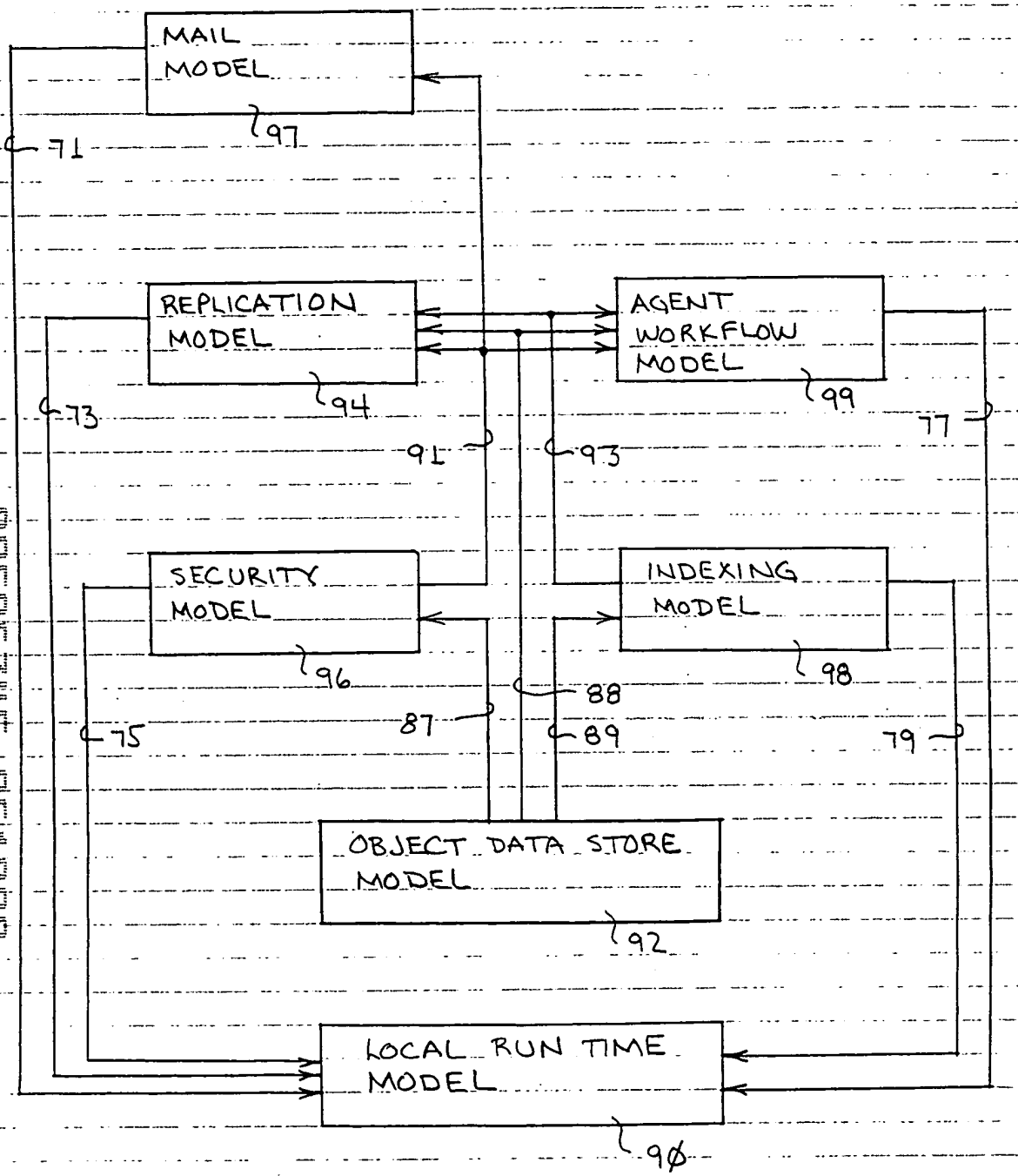

MAIL MODEL
97
71
REPLICATION MODEL
94
73
AGENT WORKFLOW MODEL
99
77
91
93
SECURITY MODEL
96
75
INDEXING MODEL
98
79
88
87
89
OBJECT DATA STORE MODEL
92
LOCAL RUN TIME MODEL
90

FIG. 2

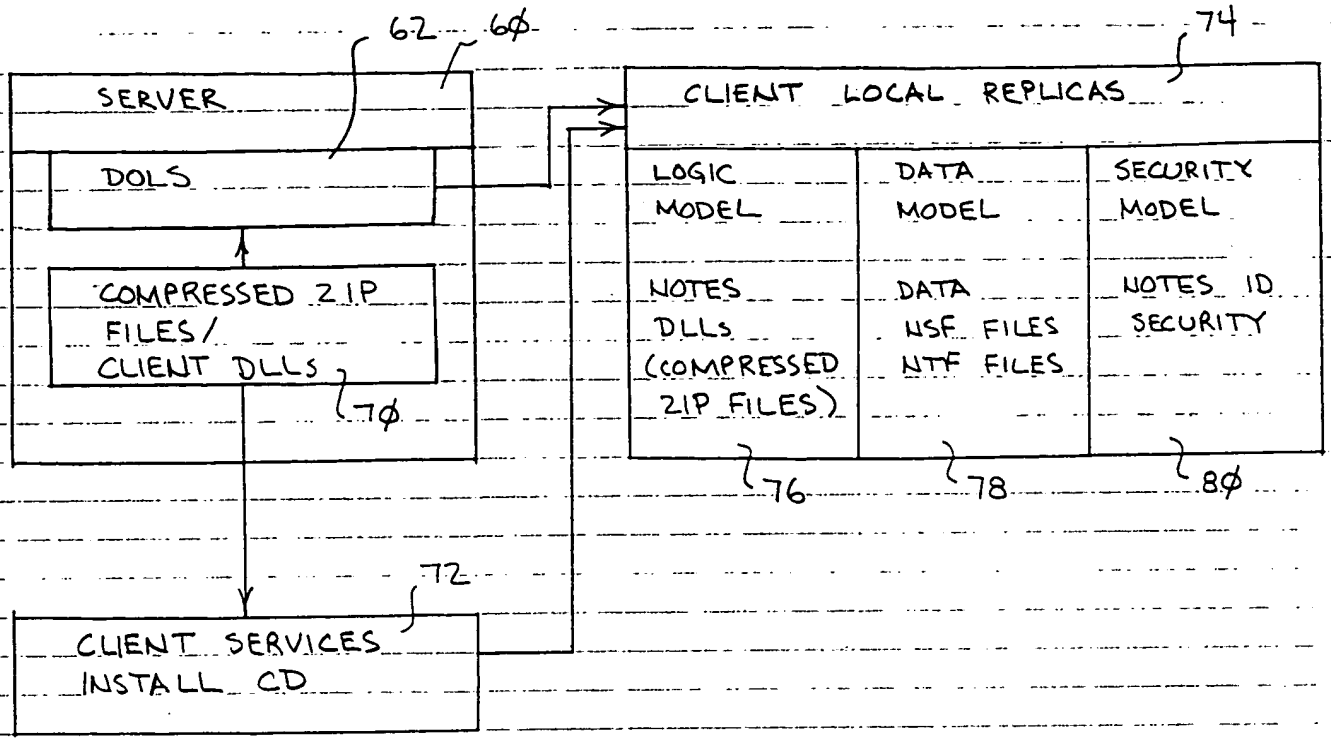



FIG. 3.

0605075.00500

| | | |
|---|---|---|
| LEVEL ϕ (82) | LOTUS iNOTES SYNC MGR<br>NO DATA<br>COMPRESSED DLLs | iNOTES COMPRESSED |
| LEVEL 1 (84) | OEM'ABLE CD:<br>NSF OF WEB SITE | iNOTES INSTALLER,<br>NO DATA |
| LEVEL 2 (86) | NOTES API PROGRAM<br>NSF's FOR<br>iNOTES INSTALL | i NOTES INSTALLER,<br>WITH CUSTOMER DATA |

FIG. 4

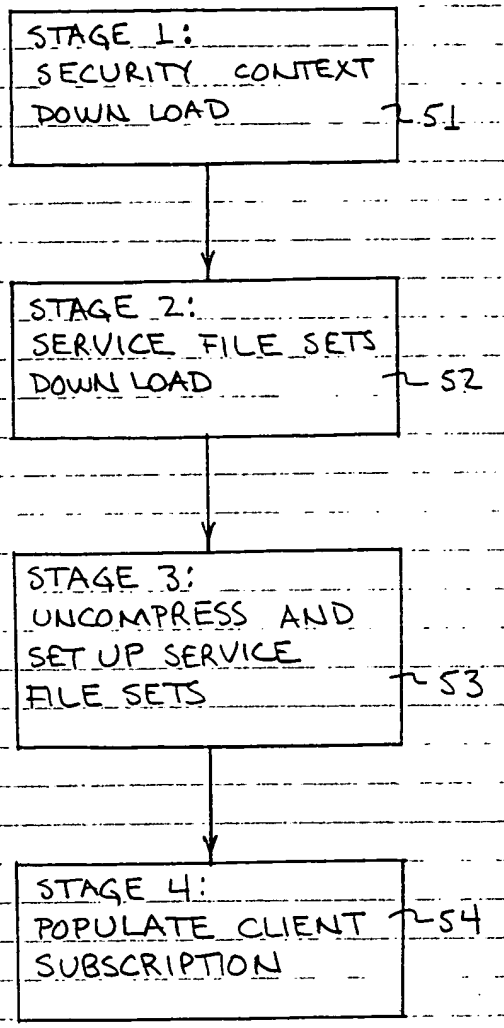

STAGE 1:
SECURITY CONTEXT
DOWN LOAD
51
STAGE 2:
SERVICE FILE SETS
DOWN LOAD
52
STAGE 3:
UNCOMPRESS AND
SET UP SERVICE
FILE SETS
53
STAGE 4:
POPULATE CLIENT
SUBSCRIPTION
54

FIG. 5

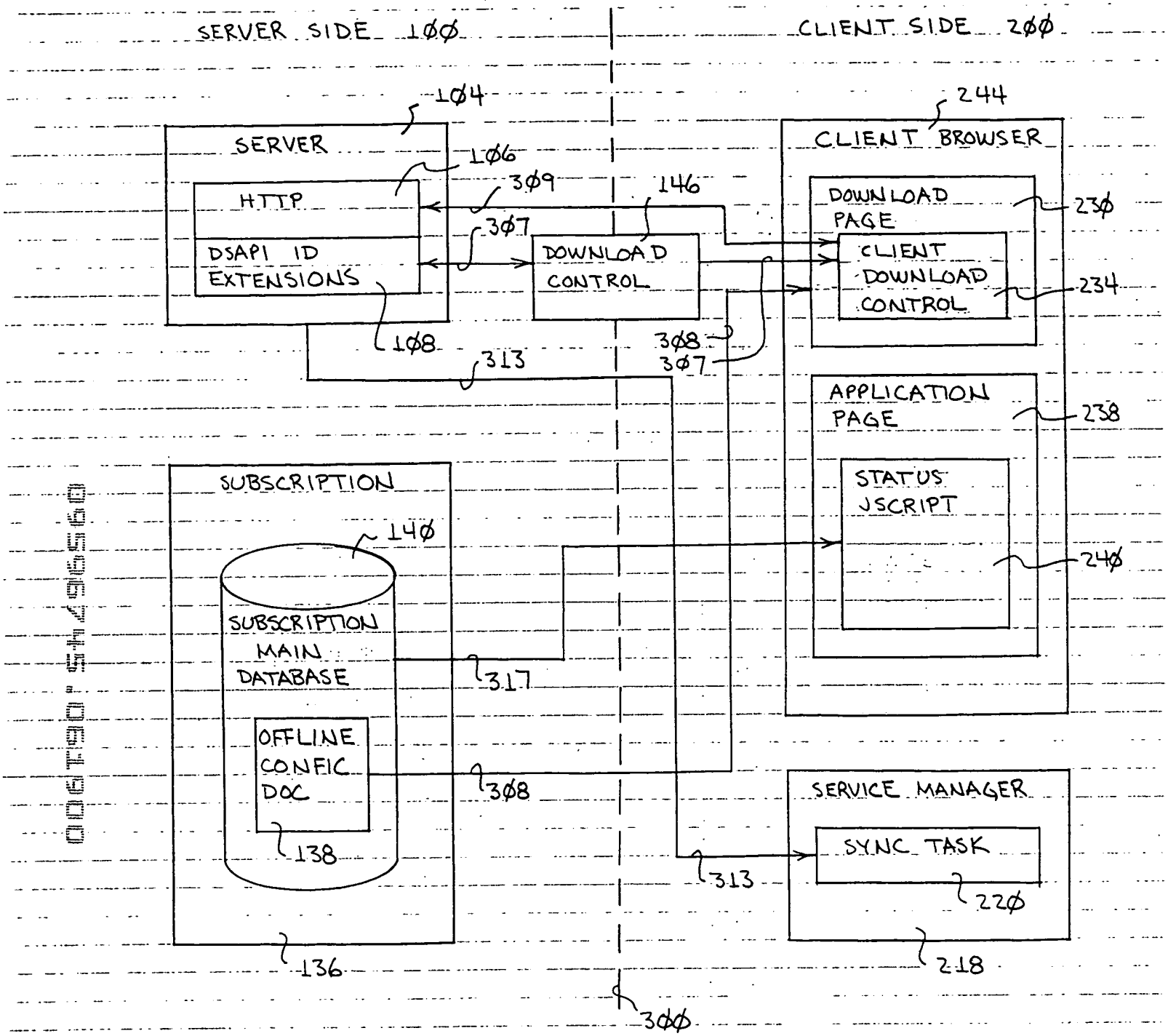

SERVER SIDE 100
CLIENT SIDE 200
104
SERVER
106
HTTP
DSAPI ID EXTENSIONS
108
309
307
146
DOWNLOAD CONTROL
313
308
307
244
CLIENT BROWSER
DOWNLOAD PAGE
230
CLIENT DOWNLOAD CONTROL
234
APPLICATION PAGE
238
STATUS JSCRIPT
240
SUBSCRIPTION
140
SUBSCRIPTION MAIN DATABASE
317
OFFLINE CONFIC DOC
308
138
136
SERVICE MANAGER
SYNC TASK
220
313
218
300

FIG. 6

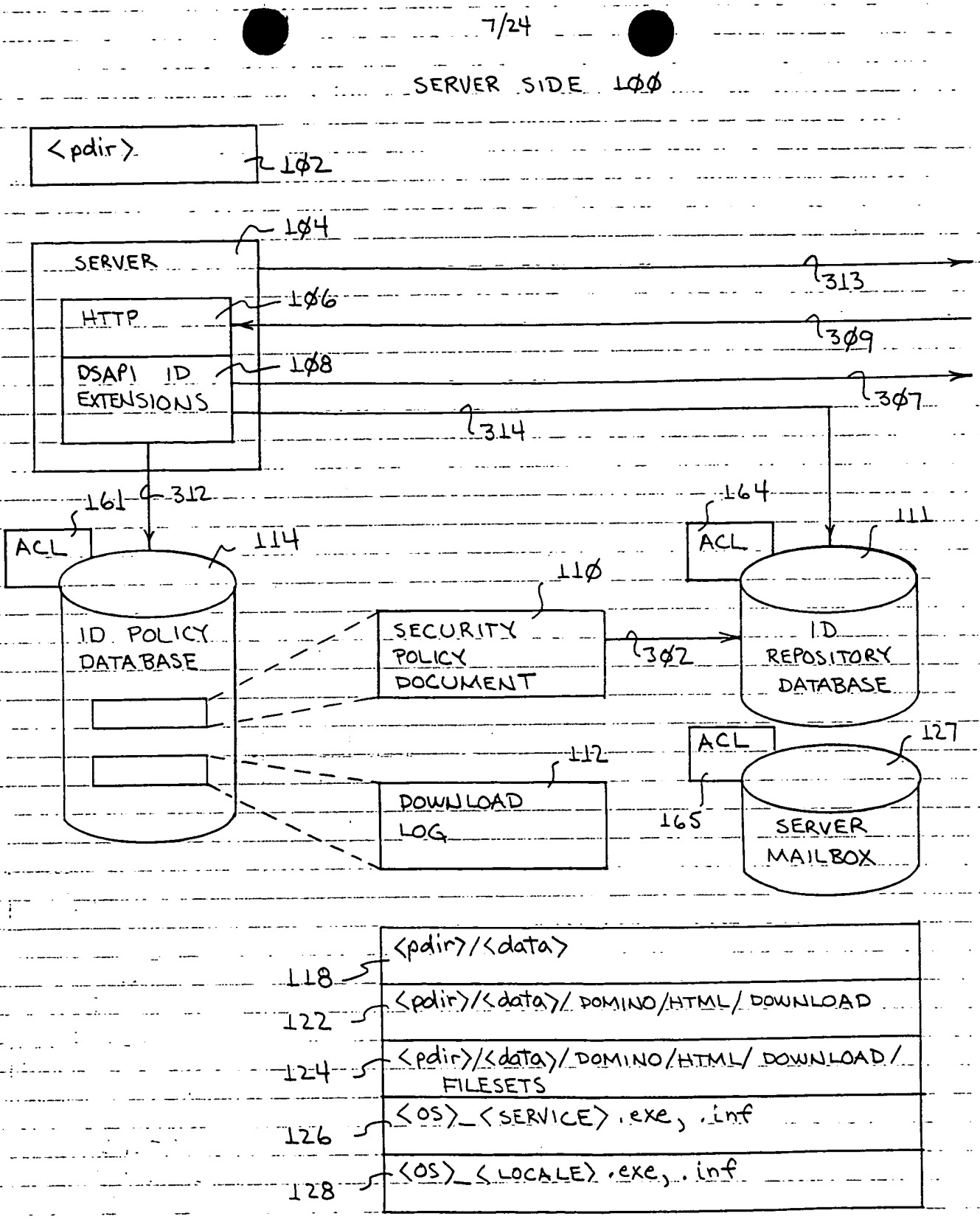

SERVER SIDE 100
<pdir>
102
SERVER
104
HTTP
106
DSAPI ID EXTENSIONS
108
313
309
307
314
312
161
ACL
114
ID POLICY DATABASE
110
SECURITY POLICY DOCUMENT
302
164
ACL
111
ID REPOSITORY DATABASE
112
DOWNLOAD LOG
ACL
127
165
SERVER MAILBOX
<pdir>/<data>
118
<pdir>/<data>/DOMINO/HTML/DOWNLOAD
122
<pdir>/<data>/DOMINO/HTML/DOWNLOAD/FILESETS
124
<OS>_<SERVICE>.exe, .inf
126
<OS>_<LOCALE>.exe, .inf
128

FIG. 7

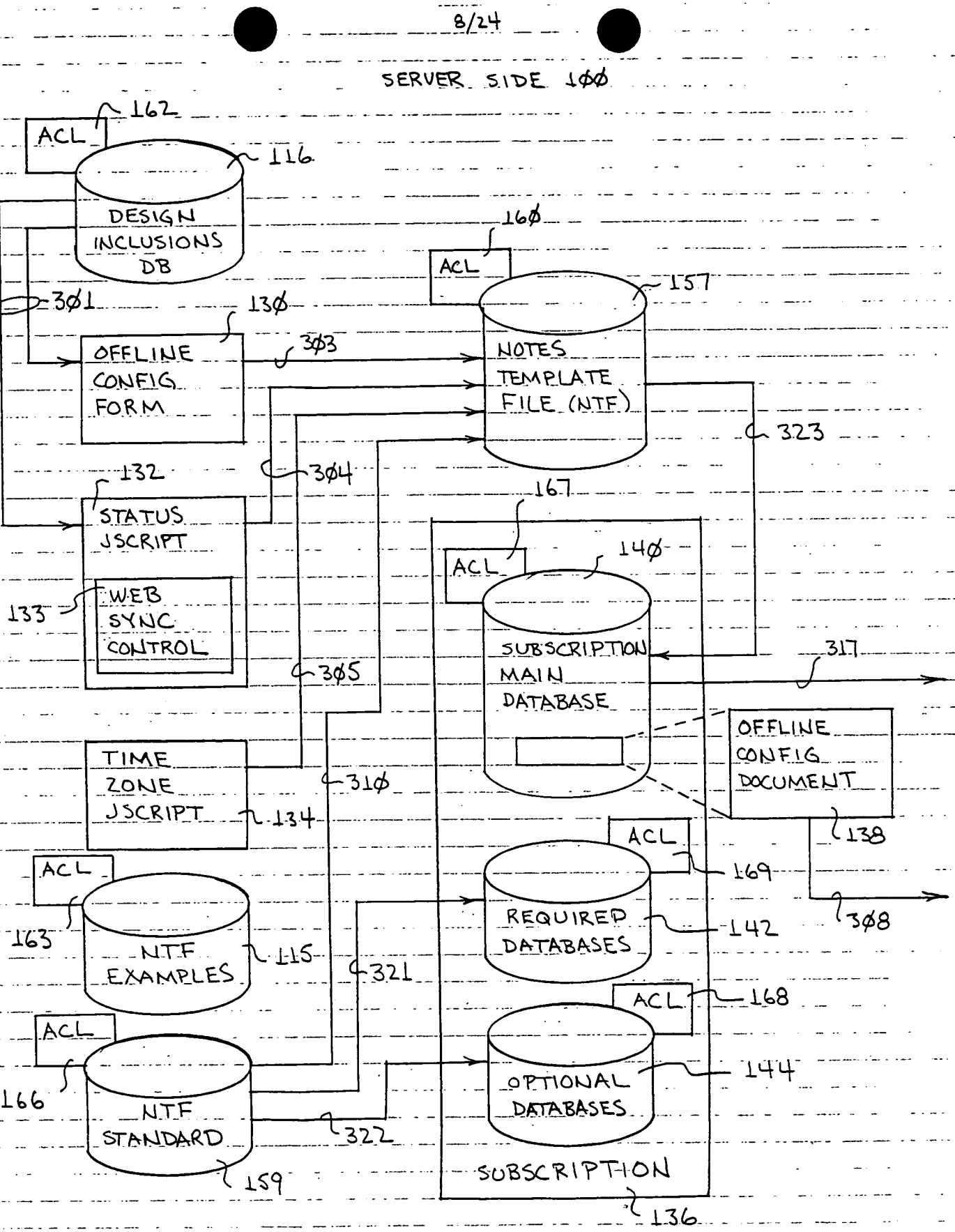

SERVER SIDE 100
ACL
162
116
DESIGN INCLUSIONS DB
160
ACL
157
NOTES TEMPLATE FILE (NTF)
301
130
OFFLINE CONFIG FORM
303
323
304
132
STATUS JSCRIPT
167
ACL
140
WEB SYNC CONTROL
133
SUBSCRIPTION MAIN DATABASE
317
305
OFFLINE CONFIG DOCUMENT
TIME ZONE JSCRIPT
310
134
138
ACL
169
ACL
163
REQUIRED DATABASES
142
308
NTF EXAMPLES
115
321
ACL
168
ACL
166
OPTIONAL DATABASES
144
NTF STANDARD
322
159
SUBSCRIPTION
136

FIG. 8

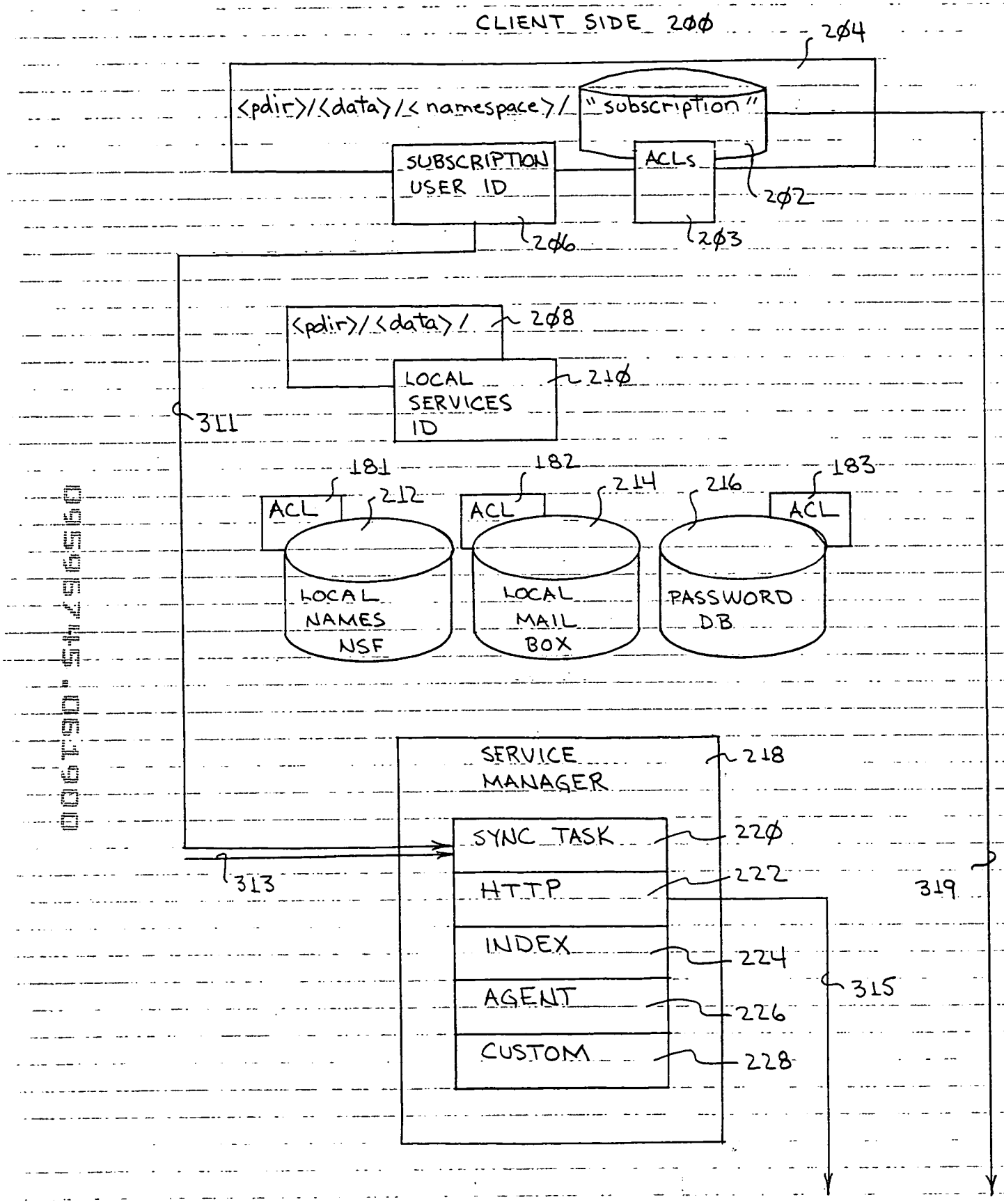

CLIENT SIDE 200
204
<pdir>/<data>/<namespace>/
"subscription"
SUBSCRIPTION USER ID
ACLs
202
206
203
<pdir>/<data>/
208
LOCAL SERVICES ID
210
311
181
182
183
ACL
212
ACL
214
216
ACL
LOCAL NAMES NSF
LOCAL MAIL BOX
PASSWORD DB
SERVICE MANAGER
218
SYNC TASK
220
HTTP
222
INDEX
224
AGENT
226
CUSTOM
228
313
315
319

FIG. 9

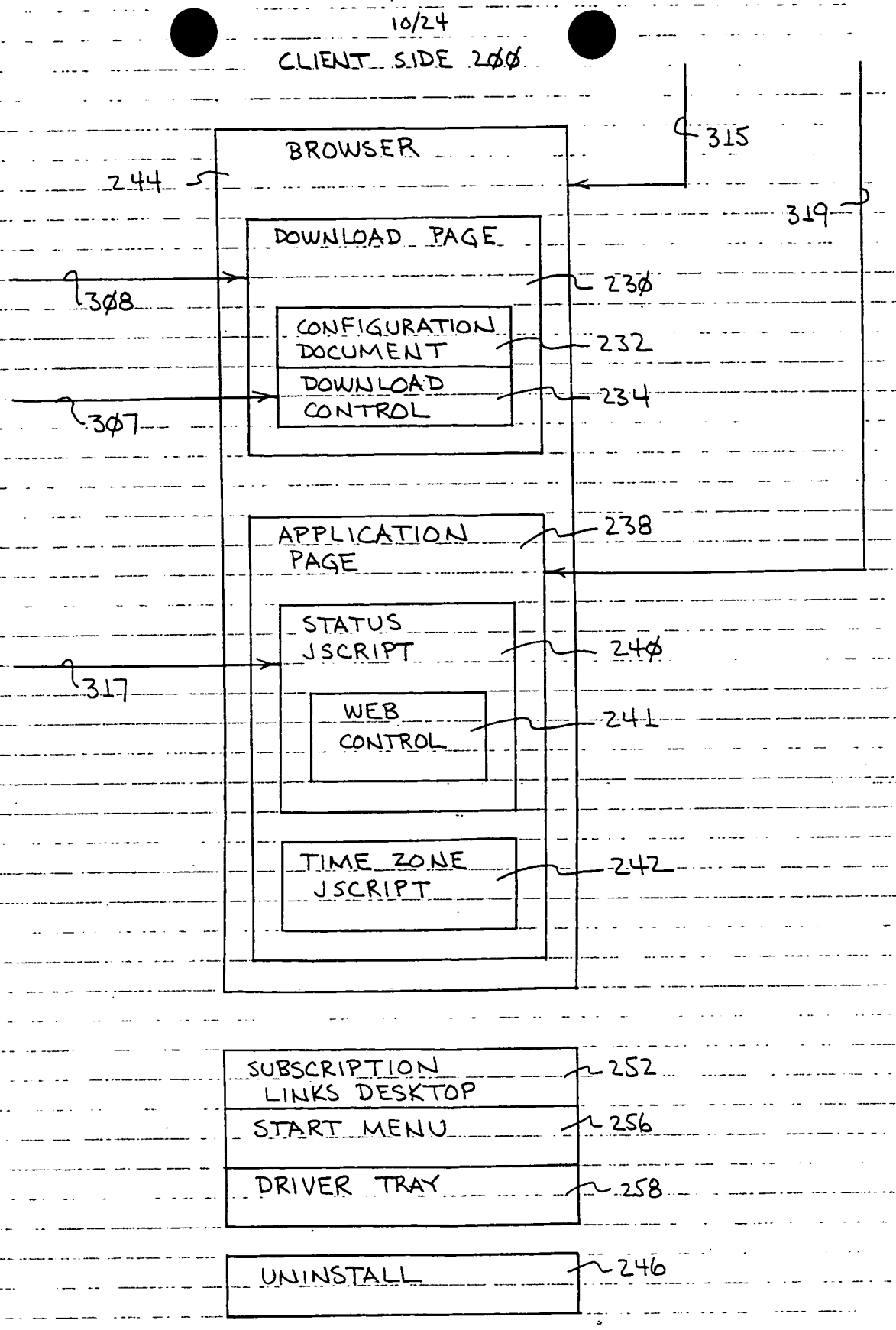

CLIENT SIDE 200
BROWSER
244
315
319
DOWNLOAD PAGE
308
230
CONFIGURATION DOCUMENT
232
DOWNLOAD CONTROL
307
234
APPLICATION PAGE
238
STATUS JSCRIPT
317
240
WEB CONTROL
241
TIME ZONE JSCRIPT
242
SUBSCRIPTION LINKS DESKTOP
252
START MENU
256
DRIVER TRAY
258
UNINSTALL
246

FIG. 10

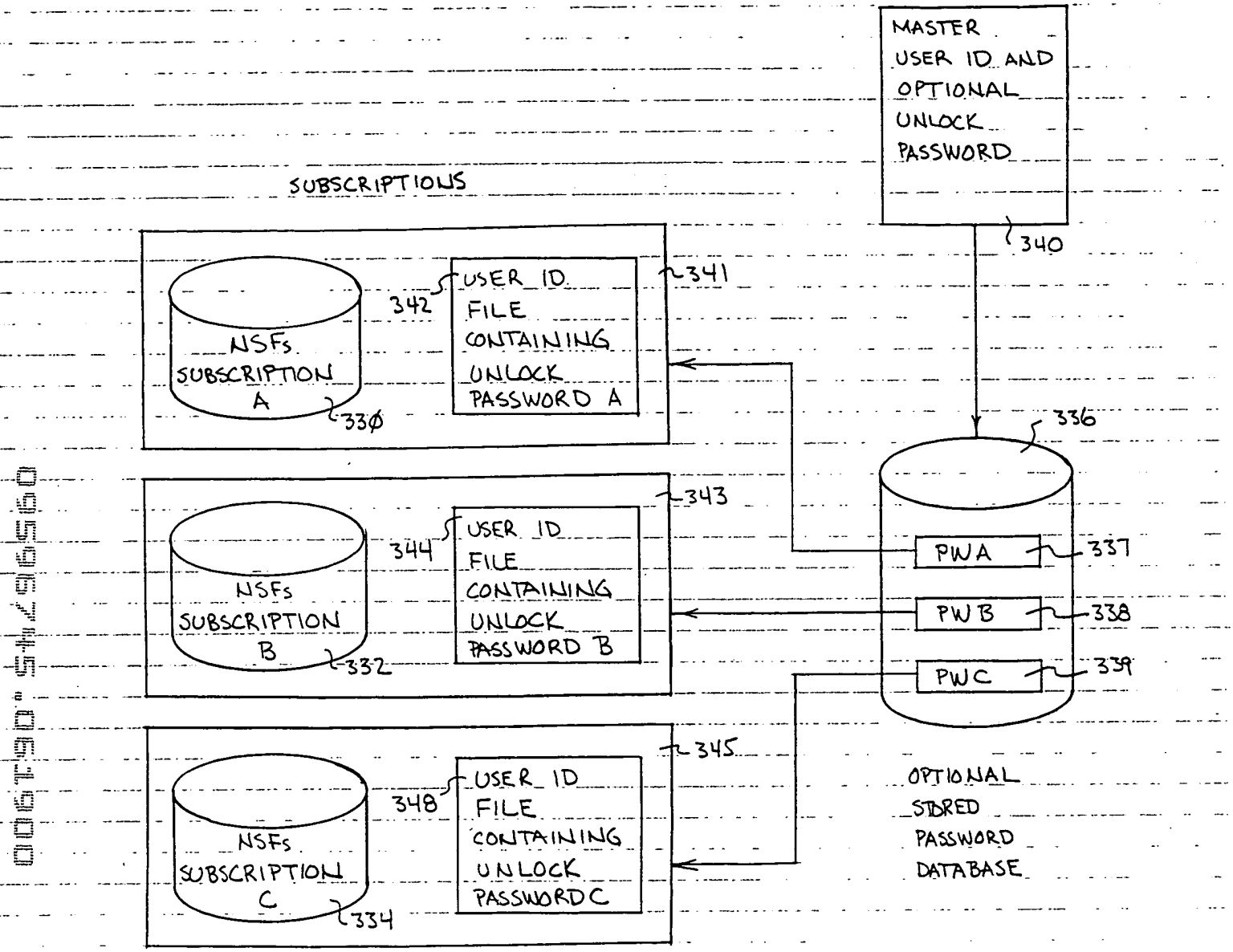

MASTER USER ID AND OPTIONAL UNLOCK PASSWORD
340
SUBSCRIPTIONS
NSFs SUBSCRIPTION A
330
342
USER ID FILE CONTAINING UNLOCK PASSWORD A
341
NSFs SUBSCRIPTION B
332
344
USER ID FILE CONTAINING UNLOCK PASSWORD B
343
NSFs SUBSCRIPTION C
334
348
USER ID FILE CONTAINING UNLOCK PASSWORDC
345
336
PWA
337
PWB
338
PWC
339
OPTIONAL STORED PASSWORD DATABASE

FIG. 11

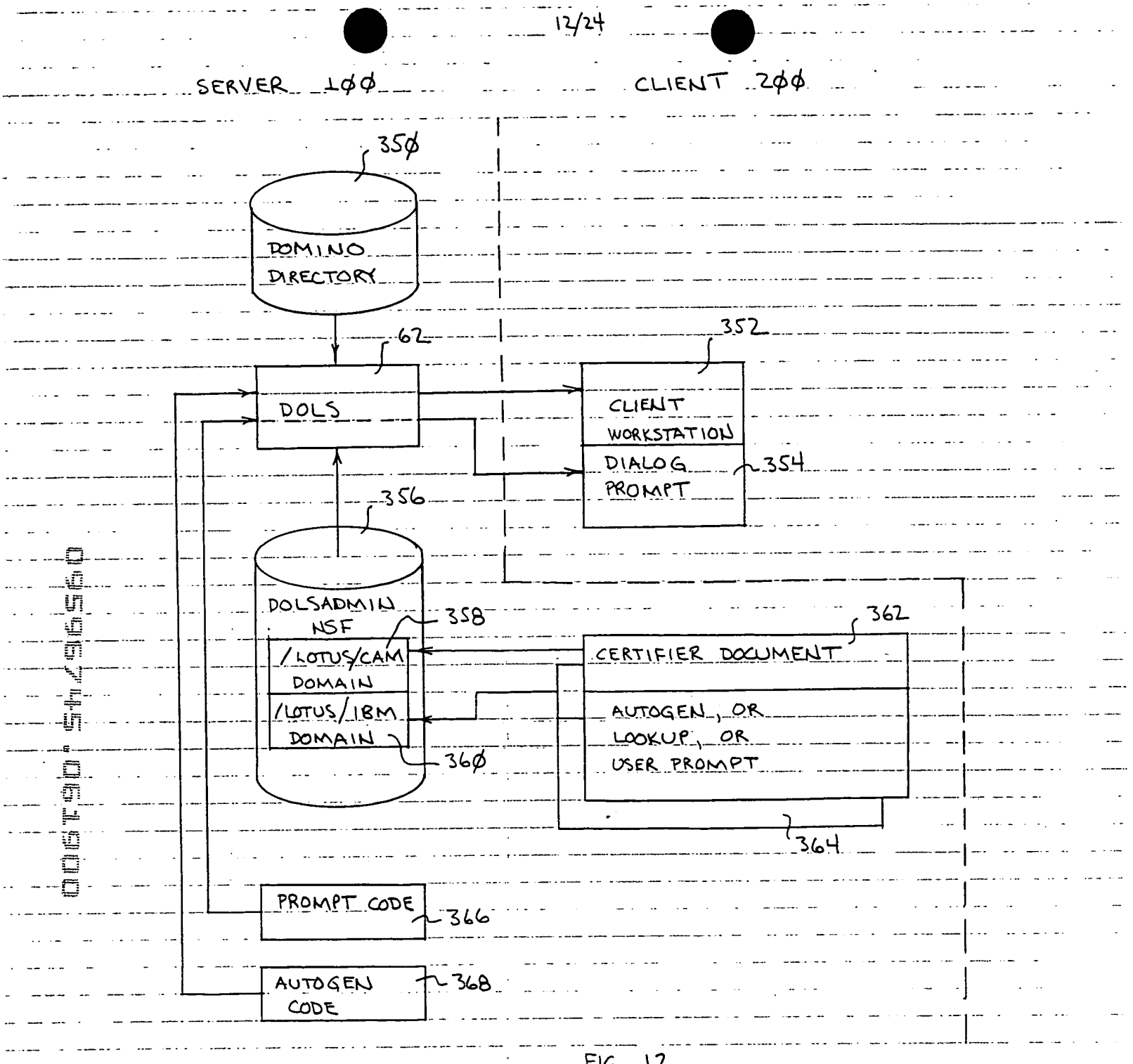



FIG. 12

0956745.0900

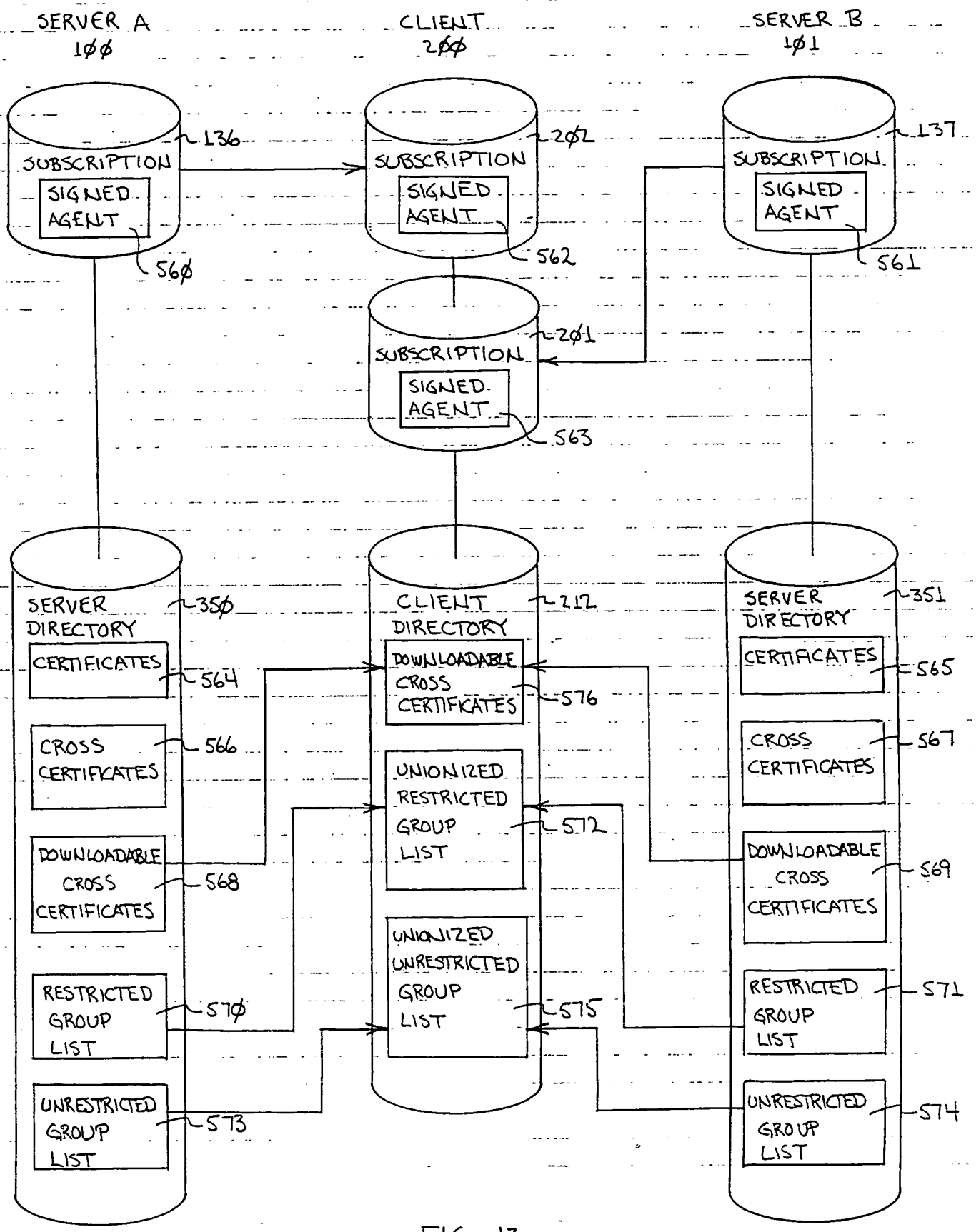
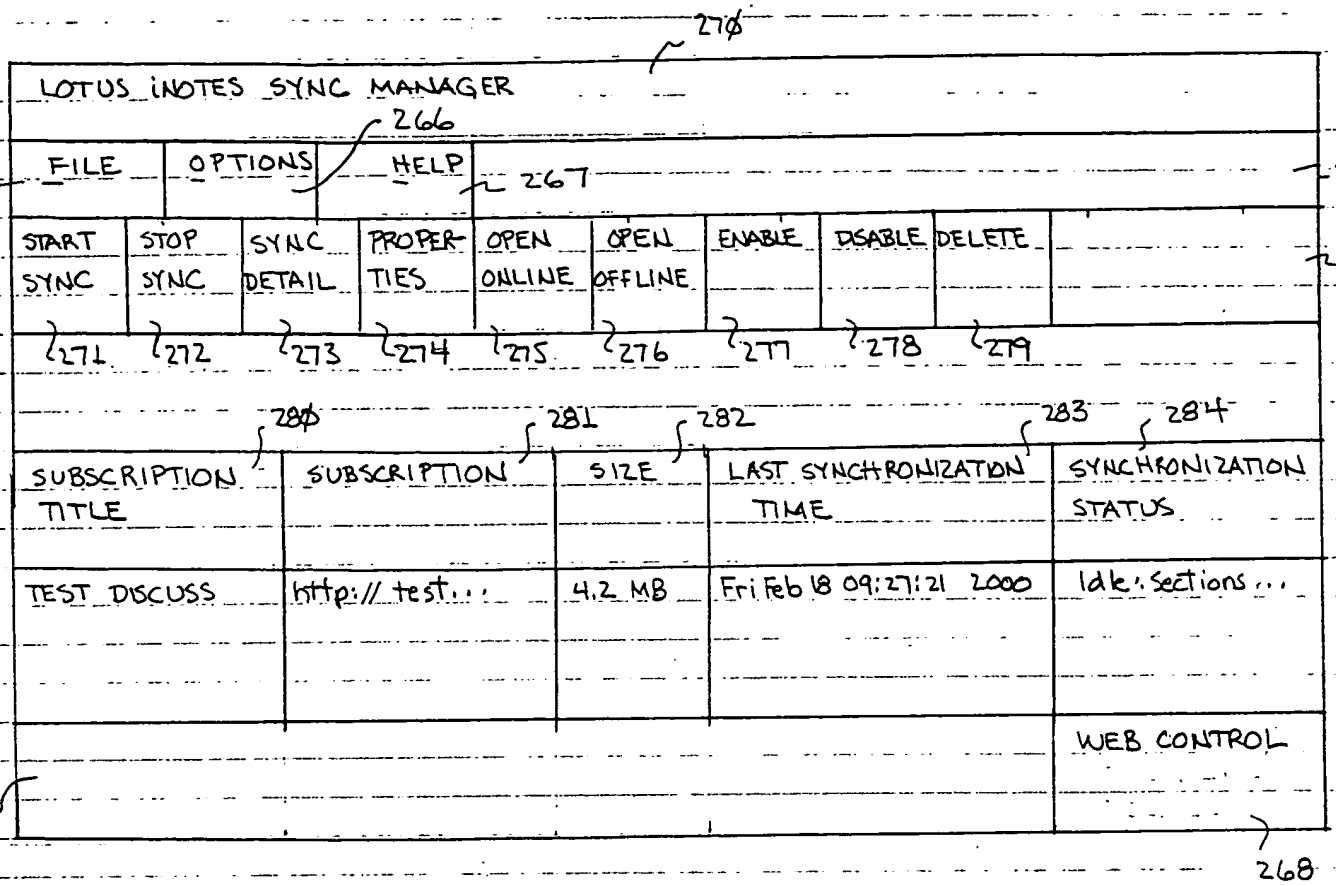



FIG. 13

05596745.060400




LOTUS iNOTES SYNC MANAGER
INITIAL WINDOW

FIG. 14

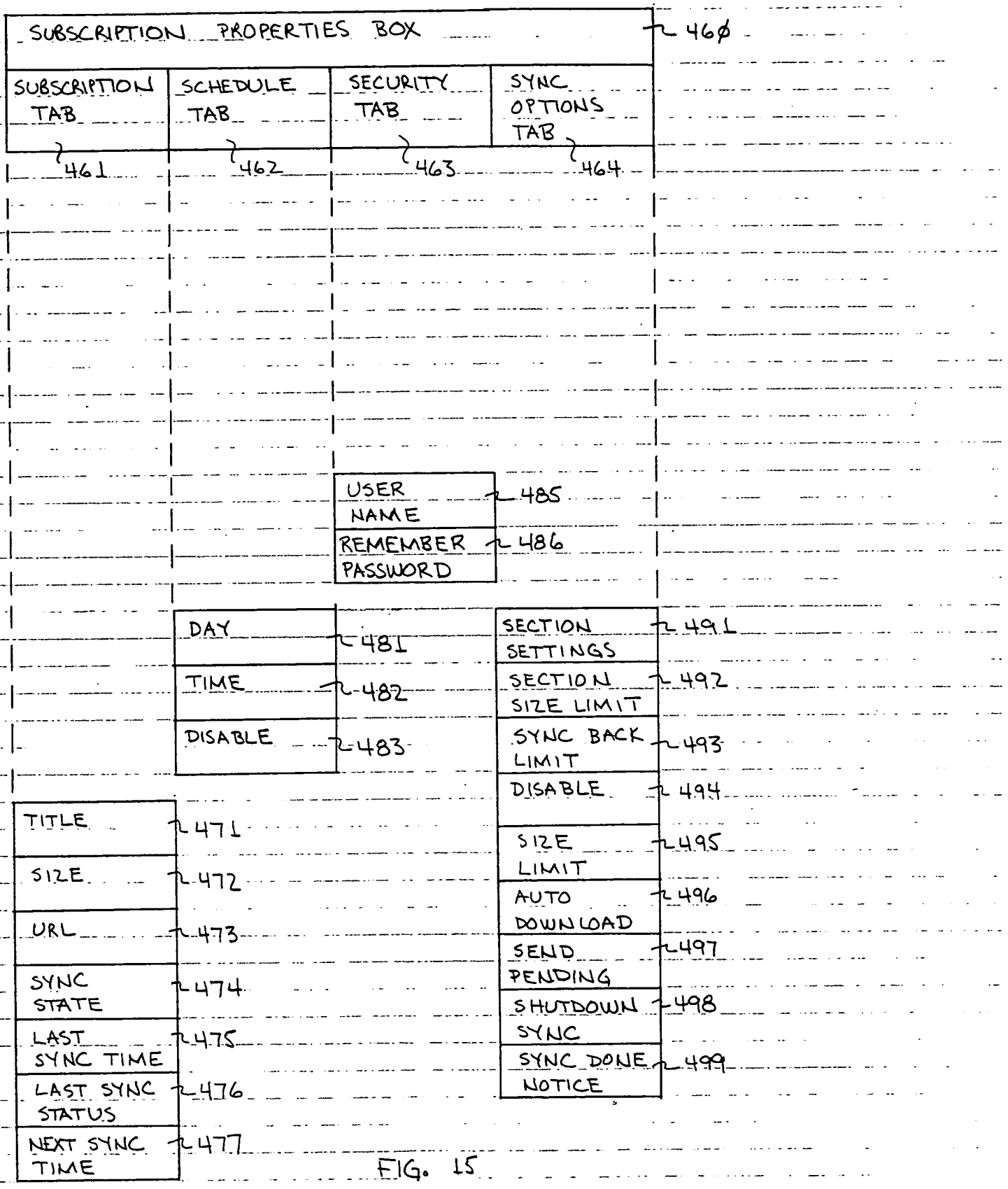



FIG. 15

US 6,925,496 B1

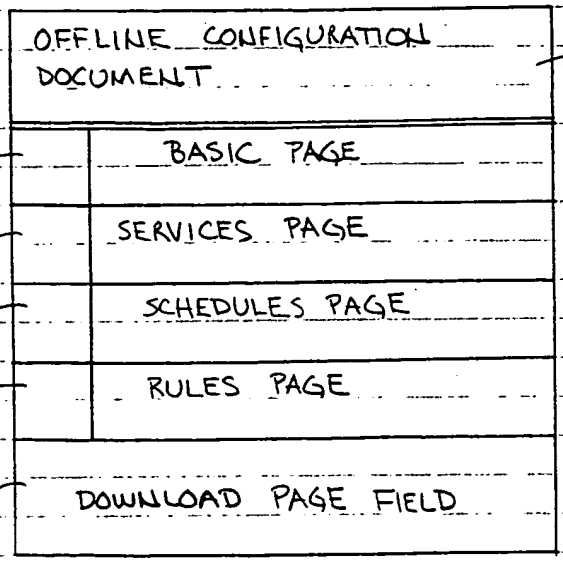

OFFLINE CONFIGURATION DOCUMENT
138
380
BASIC PAGE
384
SERVICES PAGE
390
SCHEDULES PAGE
400
RULES PAGE
409
DOWNLOAD PAGE FIELD

FIG. 16

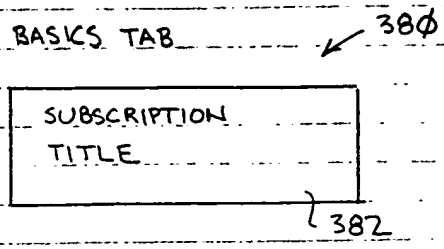

BASICS TAB
380
SUBSCRIPTION TITLE
382

FIG. 17

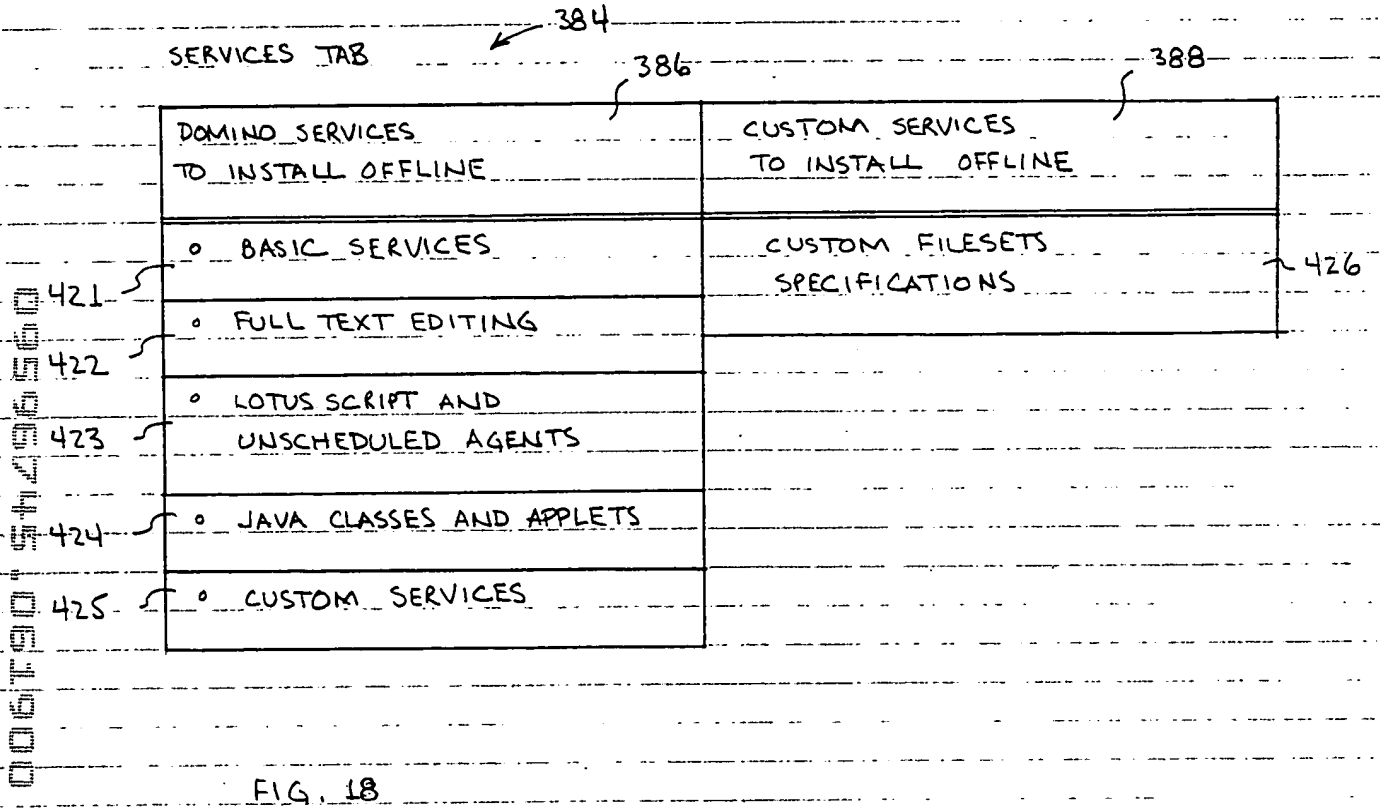

SERVICES TAB
384
386
388
DOMINO SERVICES TO INSTALL OFFLINE
CUSTOM SERVICES TO INSTALL OFFLINE
BASIC SERVICES
FULL TEXT EDITING
LOTUS SCRIPT AND UNSCHEDULED AGENTS
JAVA CLASSES AND APPLETS
CUSTOM SERVICES
CUSTOM FILESETS SPECIFICATIONS
421
422
423
424
425
426

FIG. 18

SCHEDULE TAB 390

| SCHEDULE TYPE 392 | FREQUENCY 394 | LIMITATIONS 396 | EXCEPTIONS 398 |
|---|---|---|---|
| DAILY 430 | REPEATING | STOP SYNC AT 438 | DISABLE 439 |
| WEEKLY 431 | INTERVAL 436 | | |
| MONTHLY 432 | 437 | | |
| DAY(S) OF WEEK 433 | | | |
| DAY OF MONTH 434 | | | |
| START TIME 435 | | | |

FIG. 19

RULES TAB 400

| FILE RULES 402 | SYNC OPTIONS: DATE FILTERING 404 | SYNC OPTIONS: HALT CONDITIONS 406 | SYNC OPTIONS: OPTIONAL ACTIONS 408 |
|---|---|---|---|
| REQUIRED FILES TO REPLICATE | NUMBER OF DAYS LIMIT 443 | DATABASE SIZE LIMIT 444 | NOTIFY ON SYNC COMPLETION 446 |
| OPTIONAL FILES TO REPLICATE 440 441 | | SUBSCRIPTION SIZE LIMIT 445 | ROUTE MAIL ON CLIENT SHUTDOWN 447 |
| AUTO REPLICATE NEW DBs 442 | | | REPLICATE ON CLIENT SHUTDOWN 448 |

FIG. 20

05/05/2005 10:00:00

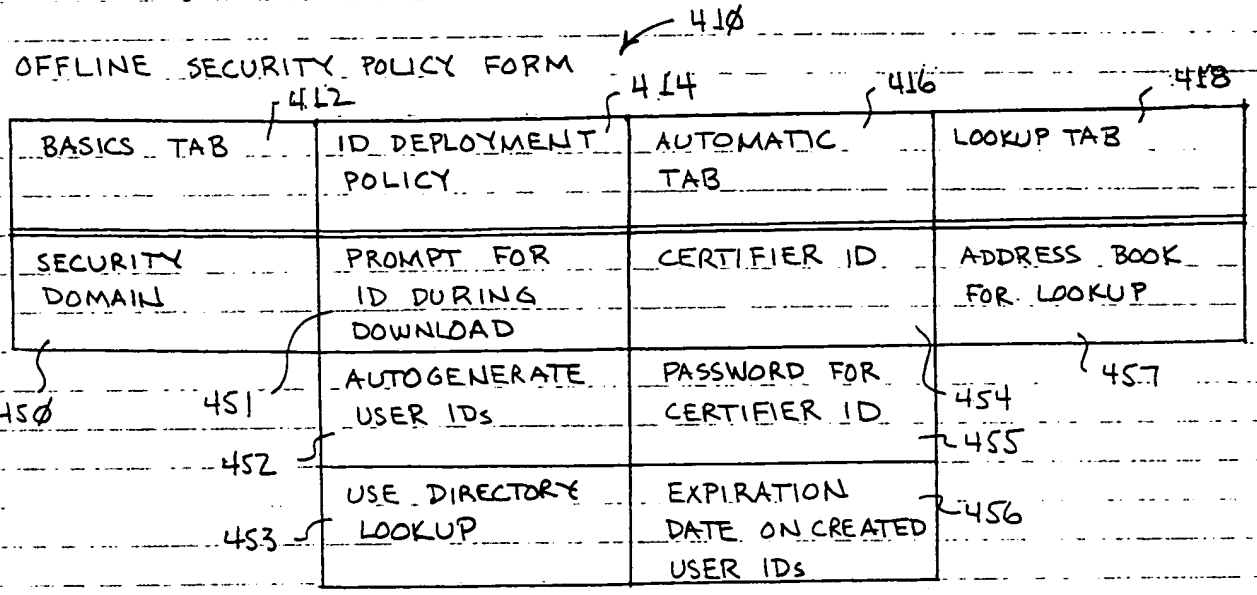

410
OFFLINE SECURITY POLICY FORM
412
414
416
418
BASICS TAB
ID DEPLOYMENT POLICY
AUTOMATIC TAB
LOOKUP TAB
SECURITY DOMAIN
PROMPT FOR ID DURING DOWNLOAD
CERTIFIER ID
ADDRESS BOOK FOR LOOKUP
AUTOGENERATE USER IDs
PASSWORD FOR CERTIFIER ID
USE DIRECTORY LOOKUP
EXPIRATION DATE ON CREATED USER IDs
450
451
452
453
454
455
456
457

FIG. 21

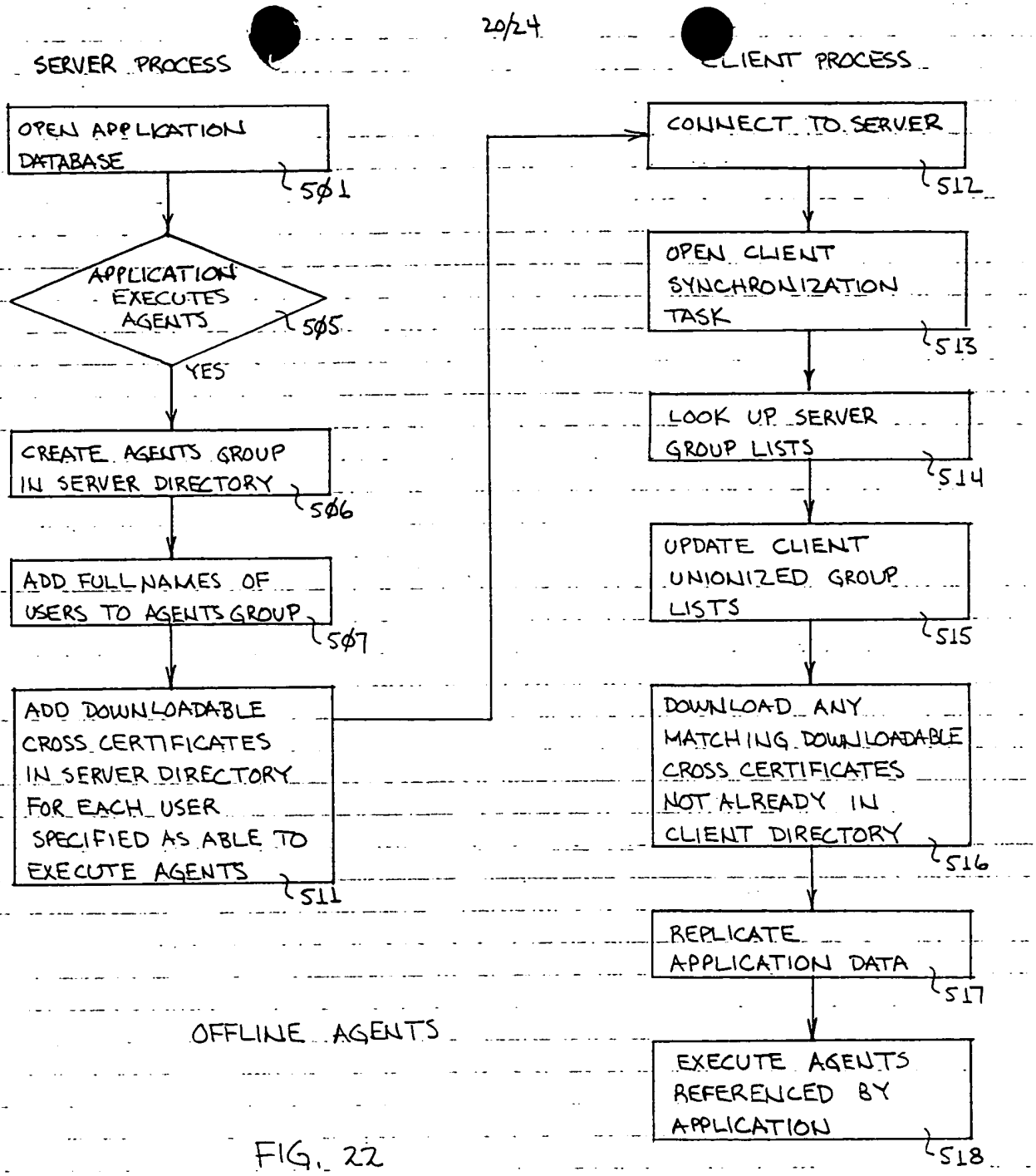



FIG. 22

08054525.060900

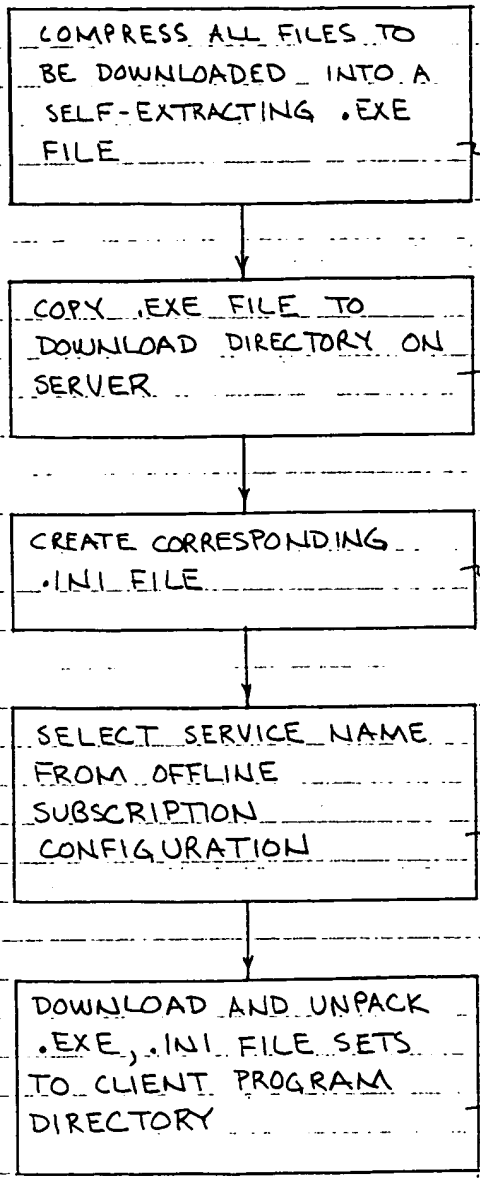

COMPRESS ALL FILES TO BE DOWNLOADED INTO A SELF-EXTRACTING .EXE FILE
465
COPY .EXE FILE TO DOWNLOAD DIRECTORY ON SERVER
466
CREATE CORRESPONDING .INI FILE
467
SELECT SERVICE NAME FROM OFFLINE SUBSCRIPTION CONFIGURATION
468
DOWNLOAD AND UNPACK .EXE, .INI FILE SETS TO CLIENT PROGRAM DIRECTORY
469

FIG. 23

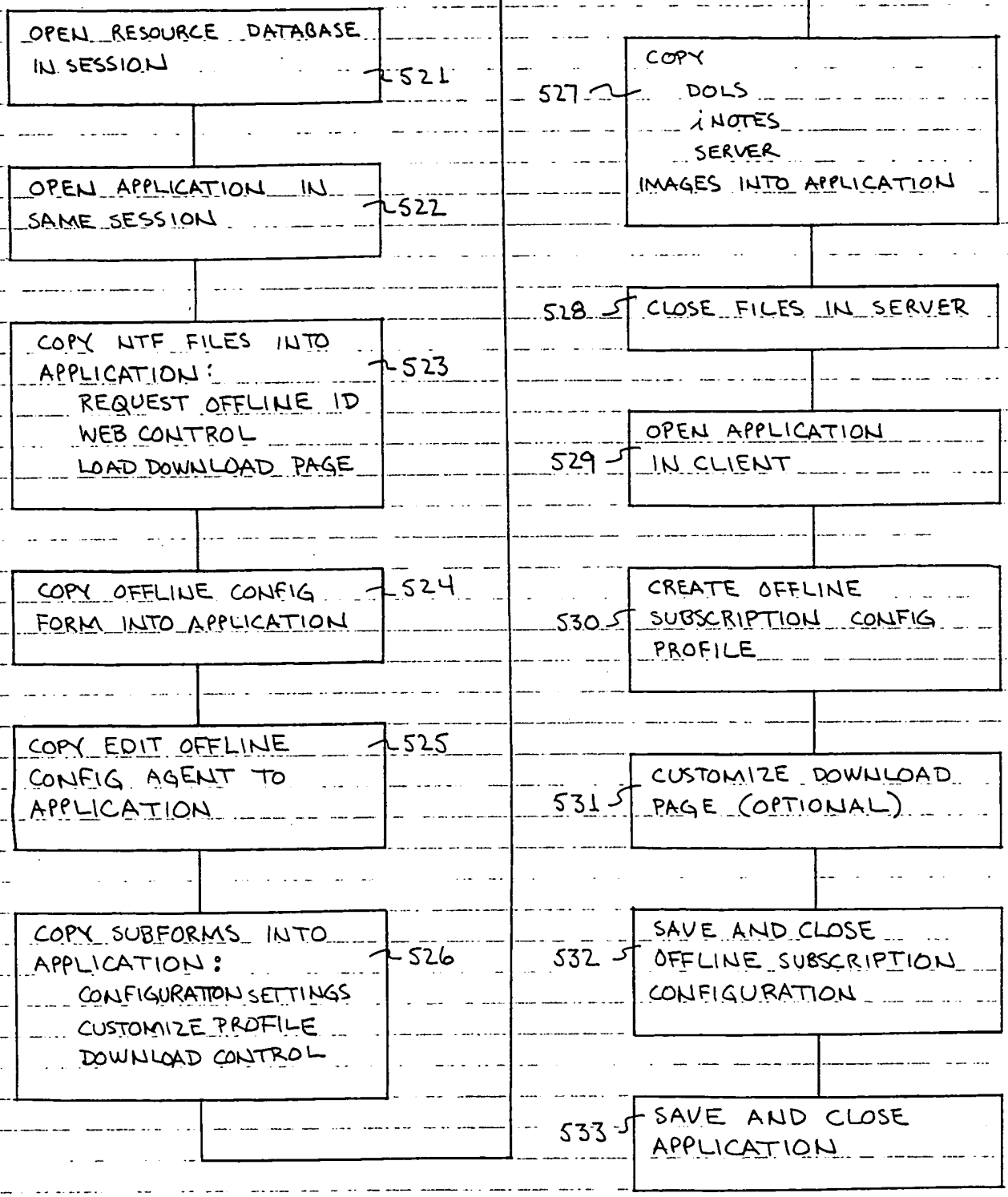

OPEN RESOURCE DATABASE IN SESSION
521
OPEN APPLICATION IN SAME SESSION
522
COPY NTF FILES INTO APPLICATION:
REQUEST OFFLINE ID
WEB CONTROL
LOAD DOWNLOAD PAGE
523
COPY OFFLINE CONFIG FORM INTO APPLICATION
524
COPY EDIT OFFLINE CONFIG AGENT TO APPLICATION
525
COPY SUBFORMS INTO APPLICATION:
CONFIGURATION SETTINGS
CUSTOMIZE PROFILE
DOWNLOAD CONTROL
526
COPY
DOLS
iNOTES
SERVER
IMAGES INTO APPLICATION
527
CLOSE FILES IN SERVER
528
OPEN APPLICATION IN CLIENT
529
CREATE OFFLINE SUBSCRIPTION CONFIG PROFILE
530
CUSTOMIZE DOWNLOAD PAGE (OPTIONAL)
531
SAVE AND CLOSE OFFLINE SUBSCRIPTION CONFIGURATION
532
SAVE AND CLOSE APPLICATION
533

FIG. 24

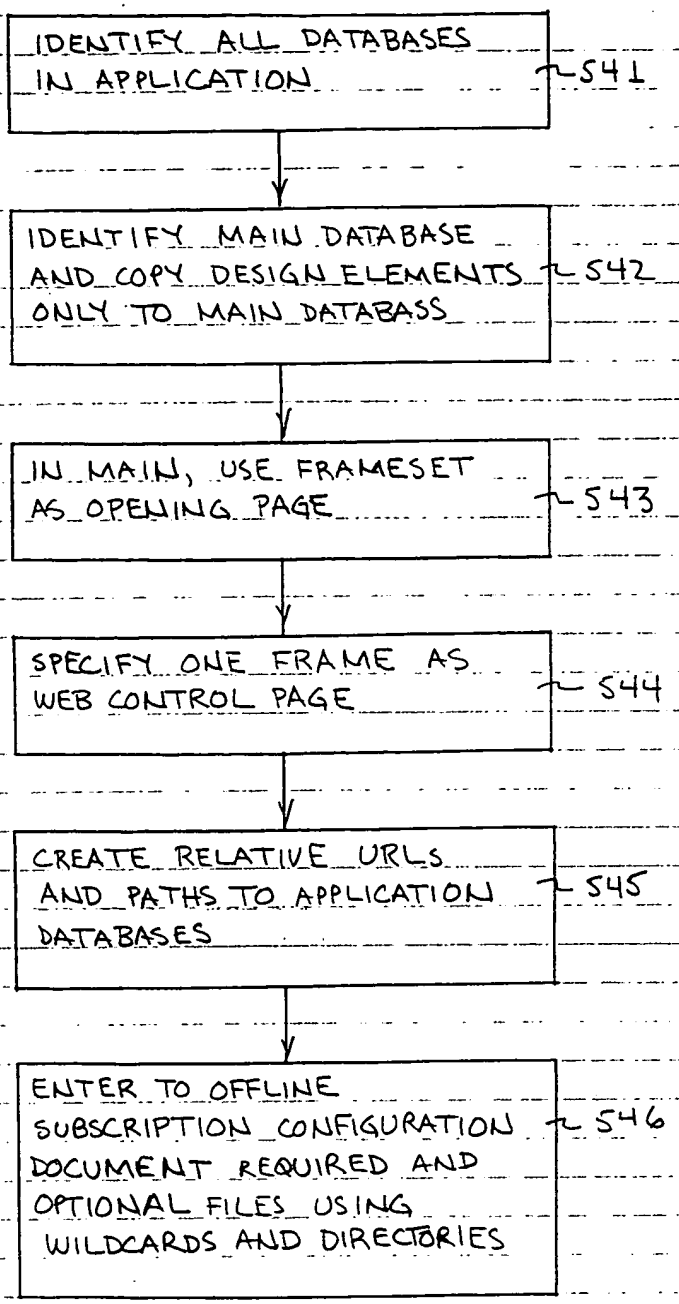

IDENTIFY ALL DATABASES IN APPLICATION
541
IDENTIFY MAIN DATABASE AND COPY DESIGN ELEMENTS ONLY TO MAIN DATABASS
542
IN MAIN, USE FRAMESET AS OPENING PAGE
543
SPECIFY ONE FRAME AS WEB CONTROL PAGE
544
CREATE RELATIVE URLS AND PATHS TO APPLICATION DATABASES
545
ENTER TO OFFLINE SUBSCRIPTION CONFIGURATION DOCUMENT REQUIRED AND OPTIONAL FILES USING WILDCARDS AND DIRECTORIES
546

FIG. 25

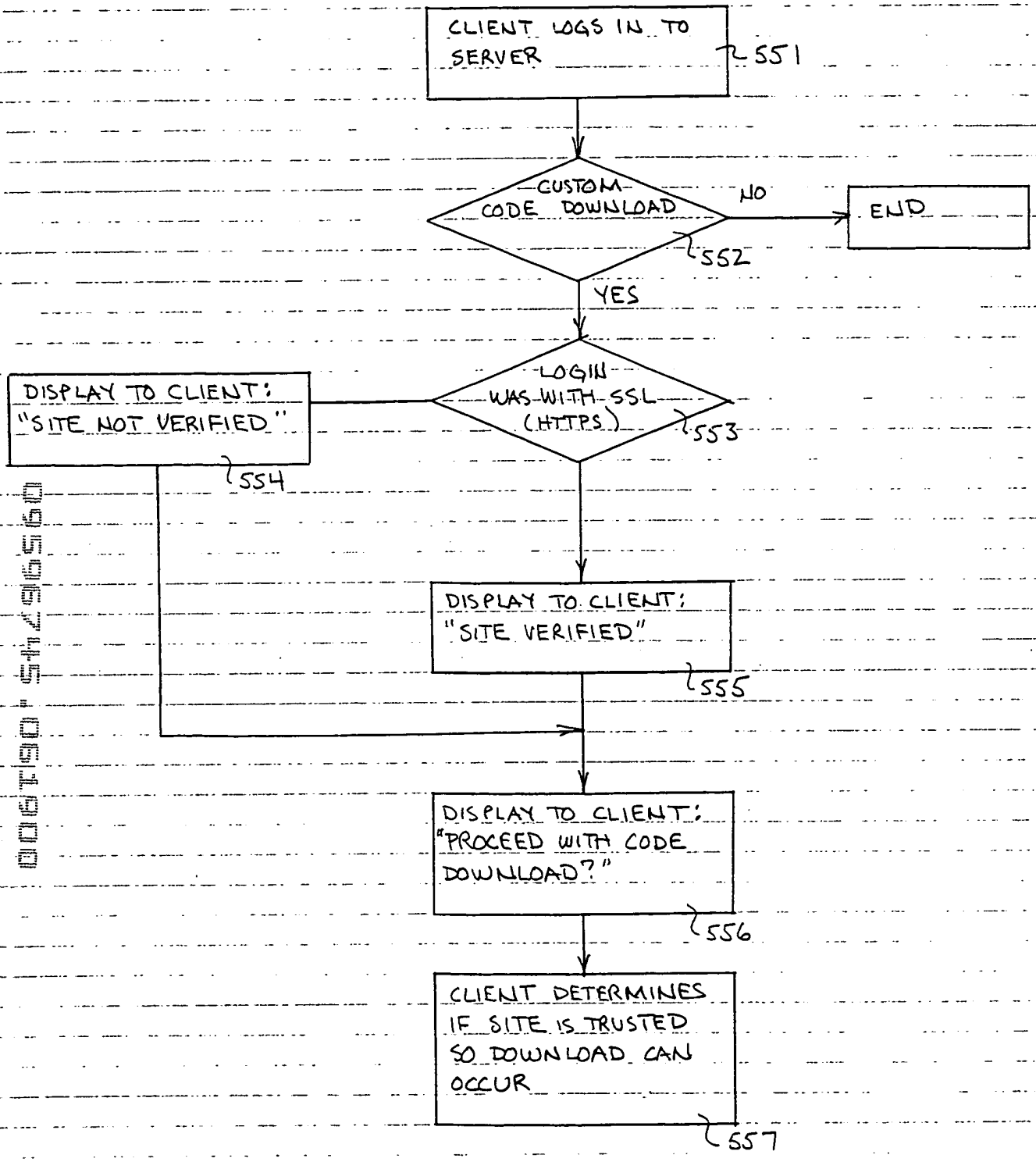

CLIENT LOGS IN TO SERVER
551
CUSTOM CODE DOWNLOAD
NO
END
552
YES
LOGIN WAS WITH SSL (HTTPS)
553
DISPLAY TO CLIENT: "SITE NOT VERIFIED"
554
DISPLAY TO CLIENT: "SITE VERIFIED"
555
DISPLAY TO CLIENT: "PROCEED WITH CODE DOWNLOAD?"
556
CLIENT DETERMINES IF SITE IS TRUSTED SO DOWNLOAD CAN OCCUR
557

FIG. 26